IEEE 802.3 Working Group Opening Plenary 10 November 2025

David Law
Chair, IEEE 802.3 Working Group
dlaw@hpe.com

Agenda, voter lists: http://www.ieee802.org/3/minutes/nov25/index.html

IEEE 802.3 Officers, Subgroup Chairs and Vice-Chairs

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IEEE 802.3 Chair: David Law <dlaw@hpe.com>
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IEEE 802.3 Vice Chair: Adam Healey <adam.healey@broadcom.com>

IEEE 802.3 Secretary: Jon Lewis <jon.lewis@dell.com>

IEEE 802.3 Executive Secretary: Chad Jones <cmjones@cisco.com>

IEEE 802.3 Treasurer: Valerie Maguire <vmaguire@ieee.org>

IEEE 802.3 Task Force chairs

IEEE P802.3da 10 Mb/s Single Pair Multidrop Segments Enhancement: Chad Jones <cmjones@cisco.com>

IEEE P802.3dg 100 Mb/s Long-Reach Single Pair Ethernet: George Zimmerman <george@cmephyconsulting.com>

IEEE P802.3dj 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Ethernet: John D'Ambrosia <jdambrosia@ieee.org>

IEEE P802.3dk Greater than 50 Gb/s Bidirectional Optical Access PHYs: Yuanqiu Luo <yuanqiu.luo@futurewei.com>

IEEE P802.3dm Asymmetrical Electrical Automotive Ethernet: Natalie Wienckowski <natalie@ivnsolutionsllc.com>

IEEE P802.3dp Cabling Restrictions for Single Pair Power over Ethernet (Pro Tem) Chad Jones <cmjones@cisco.com>

IEEE P802.3dq Pin-Optimized PHY Interface: Jason Potterf <jpotterf@cisco.com>

IEEE Std 802.3-2022/Cor 2 (IEEE 802.3dr) Optical Automotive Ethernet TDFOM Luisma Torres < luismanuel.torres@kdpof.com >

IEEE 802.3 Study Group chair

IEEE 802.3 200 Gb/s per Wavelength MMF PHYs Study Group: Mabud Choudhury <mabudchoudhury@gmail.com>

IEEE 802.3 Ethernet Metadata Services Study Group: David Ofelt <ofelt@ieee.org>

IEEE 802.3 Task Force vice-chair

IEEE P802.3dj 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Ethernet: Mark Nowell <mnowell@cisco.com>

IEEE P802.3dm Asymmetrical Electrical Automotive Ethernet: Steve Gorshe <steve.gorshe@microchip.com>

General Decorum

- An officer of the Working Group or one of its subgroups, unless prohibited by the P & P of the Standards Committee or Working Group, is permitted to record the proceedings of an IEEE standards development meeting for which they are responsible by making an audio or slideshow recording or by producing a transcript using software or an artificial intelligence (AI) application approved by IEEE. **IEEE 802.3 meetings do not use this option.** Recording of the proceedings by any other participant or observer, in part or in whole, via any means, is prohibited. Software or AI shall not be used if it enables persons other than the officer making the recording or authorized Standards Department staff to initiate or obtain the transcription or recording. (March 2025 IEEE-SA Standards Board Operations Manual 5.3.3.2)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (March 2025 IEEE-SA Standards Board Operations Manual 5.3.3.3)

In-Person Decorum







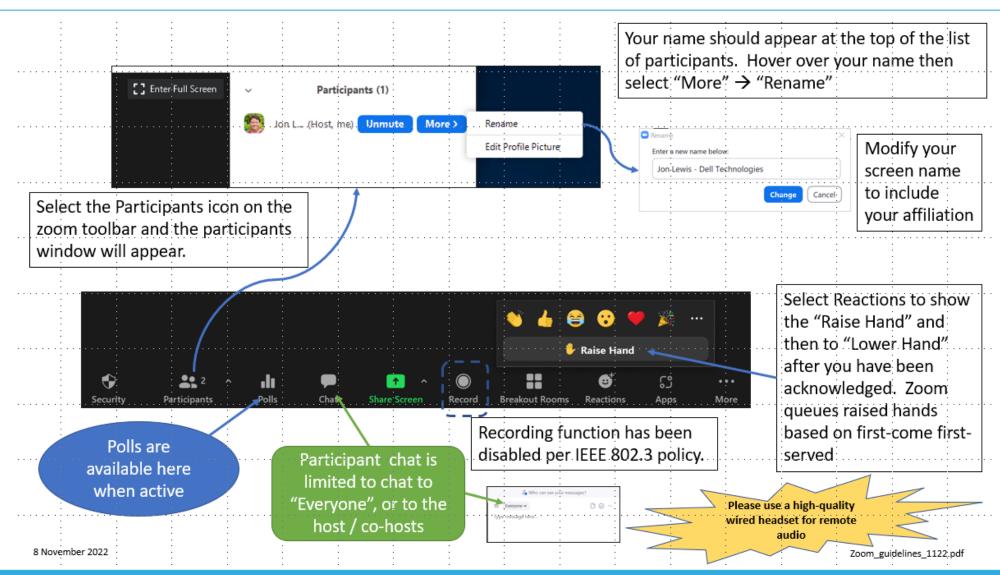
- Cell phone ringers off
- Wear your badges at all times in meeting areas
 - Help the hotel security staff improve the general security of the meeting rooms
 - PCs HAVE BEEN STOLEN at previous meetings
 - DO NOT assume that meeting areas are secure
- Please sign into the teleconference without audio and video
- Please line up at the floor mic(s) to join the queue
- Please don't speak from your seat—you won't be heard on the teleconference
- Please observe proper decorum in meetings—no sidebar conversations

Teleconference Decorum

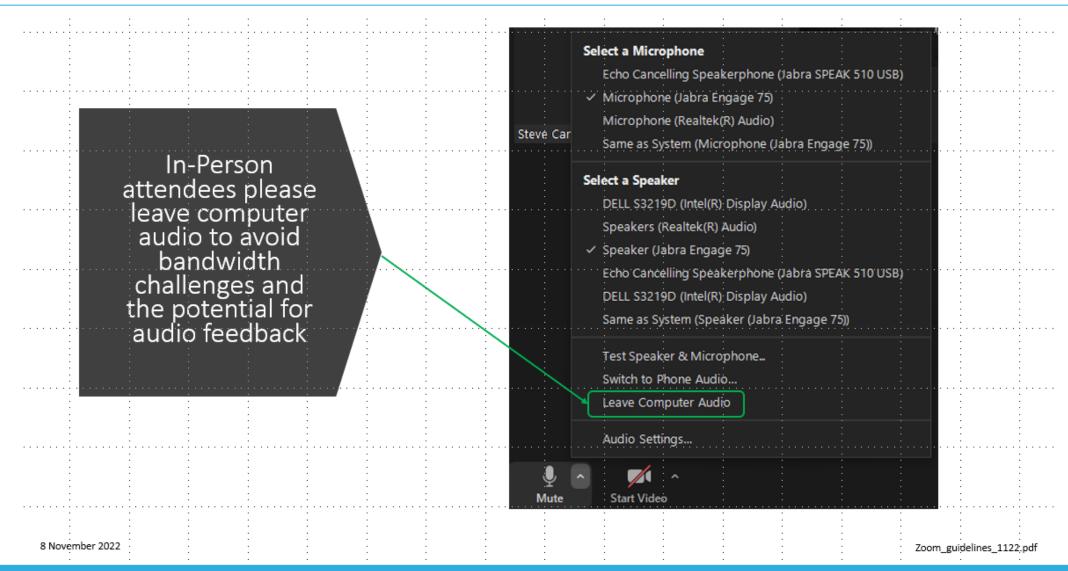


- Please MUTE unless called on
- Use the "Raise Hand" function to be placed into the queue
 - Don't forget to lower your hand once recognized
- The chat can only send to "Everyone" or the WG officers
- Please observe proper decorum in meetings

IEEE 802.3 Working Group Zoom Guidelines



IEEE 802.3 Working Group Zoom Guidelines In Person Audio



Meeting registration fee

- This plenary session is subject to registration fee
 - Anybody that attends any meeting by any means (e.g., by teleconference or in person) held during this plenary session shall pay the meeting fee
 - Single fee allows you to attend all IEEE 802 meetings during the plenary session
- The registration fee is now 1000 USD with a 300 USD discount for attendees who stay 3 or more nights at the IEEE 802 Group Hotel, the Bangkok Marriott Marquis Queen's Park, Bangkok, Thailand
- The registration web site can be accessed at https://cvent.me/YABXPq
- You will not need any code or special sign-in to attend the teleconferences
 - Attendance records will be compared with the paid registration list

Non-payment of registration fees

- If an individual is in arrears for a previous meeting:
 - The individual is not permitted to register for any future IEEE 802
 Plenary or IEEE 802 Subgroup Interim (if registration is required)
 - As a result of the above, the individual is not permitted to attend any portion of a technical meeting that is part of an IEEE 802 plenary session. They are also not permitted to attend any portion of a technical meeting that is part of an IEEE 802 Subgroup Interim if that IEEE 802 Subgroup Interim required registration
 - Other sanctions include loss of all attendance credit, and the individual will need to regain membership voting rights as though they had never previously attended once they are no longer in arrears

Agenda and Minutes

- Approve agenda
 - https://www.ieee802.org/3/minutes/nov25/1125_agenda_open.pdf
 - Any modifications, additions or deletions?
- Approve July 2025 plenary minutes
 - https://www.ieee802.org/3/minutes/jul25/0725 minutes draft.pdf
 - Any corrections, modifications, additions?
- Approve September 2025 interim minutes
 - https://www.ieee802.org/3/minutes/sep25/0925_minutes_draft.pdf
 - Any corrections, modifications, additions?

INSTRUCTIONS FOR THE WG CHAIR

The IEEE SA strongly recommends that at each WG meeting the chair or a designee:

- Show slides 1 through 4 of this presentation
- Advise the WG attendees that:
 - IEEE's patent policy is described in Clause 6 of the IEEE SA Standards Board Bylaws;
 - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
 - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- Instruct the WG Secretary to record in the minutes of the relevant WG meeting:
 - That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
 - That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
 - Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
- The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
- It is recommended that the WG Chair review the guidance in *IEEE SA Standards Board Operations Manual* 6.3.5 and in FAQs 14 and 15 on inclusion of potential Essential Patent Claims by incorporation or by reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE SA Standards Board.





PARTICIPANTS HAVE A DUTY TO INFORM THE IEEE

- Participants <u>shall</u> inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
- Participants <u>should</u> inform the IEEE (or cause the IEEE to be informed)
 of the identity of any other holders of potential Essential Patent Claims

Early identification of holders of potential Essential Patent Claims is encouraged





WAYS TO INFORM IEEE

- Cause an LOA to be submitted to the IEEE SA (patcom@ieee.org); or
- Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or
- Speak up now and respond to this Call for Potentially Essential Patents

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair





OTHER GUIDELINES FOR IEEE WORKING GROUP MEETINGS

- *All IEEE SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
 - Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
 - Don't discuss specific license rates, terms, or conditions.
 - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
 - Technical considerations remain the primary focus.
 - Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
 - Don't discuss the status or substance of ongoing or threatened litigation.
 - Don't be silent if inappropriate topics are discussed. Formally object to the discussion immediately.

For more details, see IEEE SA Standards Board Operations Manual, clause 5.3.10 and Antitrust and Competition Policy: What You Need to Know at http://standards.ieee.org/develop/policies/antitrust.pdf





PATENT-RELATED INFORMATION

The patent policy and the procedures used to execute that policy are documented in the:

- IEEE SA Standards Board Bylaws (http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6)
- IEEE SA Standards Board Operations Manual (http://standards.ieee.org/develop/policies/opman/sect6.html#6.3)

Material about the patent policy is available at http://standards.ieee.org/about/sasb/patcom/materials.html

If you have questions, contact the IEEE SA Standards Board Patent Committee Administrator at patcom@ieee.org





INSTRUCTIONS FOR CHAIRS OF STANDARDS DEVELOPMENT ACTIVITIES

At the beginning of each standards development meeting the chair or a designee is to:

- Show the following slides (or provide them beforehand)
- Advise the standards development group participants that:
- IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy;
- Instruct the Secretary to record in the minutes of the relevant meeting:
- That the foregoing information was provided and that the copyright slides were shown (or provided beforehand).





IEEE SA COPYRIGHT POLICY

By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.

- Previously Published material (copyright assertion indicated) shall not be presented/submitted to the Working Group nor incorporated into a Working Group draft unless permission is granted.
- Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA.
- For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.





IEEE SA COPYRIGHT POLICY

- The IEEE SA Copyright Policy is described in the IEEE SA Standards Board Bylaws and IEEE SA Standards Board Operations Manual
 - IEEE SA Copyright Policy, see
 Clause 7 of the IEEE SA Standards Board Bylaws
 https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7
 Clause 6.1 of the IEEE SA Standards Board Operations Manual https://standards.ieee.org/about/policies/opman/sect6.html
- IEEE SA Copyright Permission
 - https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/permissionltrs.zip
- IEEE SA Copyright FAQs
 - http://standards.ieee.org/faqs/copyrights
- IEEE SA Best Practices for IEEE Standards Development
 - http://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/best_practices_for_ieee_standards_development_051215.pdf
- Distribution of Draft Standards (see 6.1.3 of the SASB Operations Manual)
 - https://standards.ieee.org/about/policies/opman/sect6.html





Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct

- All participants in IEEE-SA activities are expected to adhere to the core principles underlying the:
 - IEEE Code of Ethics
 - IEEE Code of Conduct
- The core principles of the IEEE Codes of Ethics & Conduct are to:
 - Uphold the highest standards of integrity, responsible behavior, and ethical and professional conduct
 - Treat people fairly and with respect, to not engage in harassment, discrimination, or retaliation, and to protect people's privacy.
 - Avoid injuring others, their property, reputation, or employment by false or malicious action
- The most recent versions of these Codes are available at http://www.ieee.org/about/corporate/governance

Participants in the IEEE-SA "individual process" shall act independently of others, including employers

- The <u>IEEE-SA Standards Board Bylaws</u> require that "participants in the IEEE standards development individual process shall act based on their qualifications and experience"
- This means participants:
 - Shall act & vote based on their personal & independent opinions derived from their expertise, knowledge, and qualifications
 - Shall not act or vote based on any obligation to or any direction from any other person or organization, including an employer or client, regardless of any external commitments, agreements, contracts, or orders
 - Shall not direct the actions or votes of other participants or retaliate against other participants for fulfilling their responsibility to act & vote based on their personal & independently developed opinions
- By participating in standards activities using the "individual process", you are deemed to accept these requirements; if you are unable to satisfy these requirements then you shall immediately cease any participation

IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints

- The <u>IEEE-SA Standards Board Bylaws</u> (clause 5.2.1.3) specifies that "the standards development process shall not be dominated by any single interest category, individual, or organization"
 - This means no participant may exercise "authority, leadership, or influence by reason of superior leverage, strength, or representation to the exclusion of fair and equitable consideration of other viewpoints" or "to hinder the progress of the standards development activity"
- This rule applies equally to those participating in a standards development project and to that project's leadership group
- Any person who reasonably suspects that dominance is occurring in a standards development project is encouraged to bring the issue to the attention of the Standards Committee or the project's IEEE-SA Program Manager

Important Bylaws and Rules

- IEEE-SA Operations Manual
 - https://standards.ieee.org/about/policies/sa-opman/
- IEEE-SA Standards Board Bylaws
 - https://standards.ieee.org/about/policies/bylaws/
- IEEE-SA Standards Board Operations Manual
 - https://standards.ieee.org/about/policies/opman/
- IEEE 802 LAN/MAN Standards Committee (LMSC) Policies and Procedures
 - https://ieee.app.box.com/v/PandP-LMSC
- IEEE 802 LAN/MAN Standards Committee (LMSC) Operations Manual
 - http://www.ieee802.org/devdocs.shtml
- IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures
 - http://www.ieee802.org/devdocs.shtml
- IEEE 802.3 Working Group Operating Rules
 - http://ieee802.org/3/rules/P802_3_rules.pdf

Membership and attendance recording Membership requirements (gaining and retaining)

- Membership requirements (gaining)
 - Attendance in at least 75% of meeting slots at 2 of the last 4 plenary sessions
 - Attendance in at least 75% of meeting slots at recent IEEE 802.3 Ethernet Working Group or Task Group Interim Session may be substituted for one of the two Plenary Sessions
 - Attendance in at least 75% of the meeting slot's duration is required for that attendance to count towards gaining or maintaining voting membership
 - You can only claim IMAT attendance credit if you attend at least 75% of slot's duration
 - Officers may remove IMAT attendance credit if you attend less than 75% of slot's duration
 - Provide declaration of affiliation and valid contact information
 - Request to become member during potential voter agenda item at an IEEE 802.3 Ethernet Working Group opening or closing <u>plenary</u> meeting
- Membership requirements (retaining)
 - Continue to meet above attendance, contact, and affiliation requirements
 - Participate in <u>two</u> out of the last <u>three</u> Working Group Letter Ballot Series
- For more details see: https://www.ieee802.org/3/rules/member.html

Membership and attendance recording Membership requirements (gaining and retaining)

- You must pay the meeting registration fee to receive meeting credit for this session
- You must attend IEEE 802.3 plenary on a day with an IEEE 802.3 plenary for credit
 - One slot with credit on Monday during the IEEE 802.3 Working Group opening plenary
 - Two slots in the morning and two slots in afternoon with credit on Tuesday and Wednesday
 - Two slots on Thursday with credit during the IEEE 802.3 Working Group closing plenary
- Attendance at nine or more (at least 75% of eleven) of these slots with credit is required for session attendance credit towards gaining and retaining membership
- The percentage reported by IMAT from May 2024 onwards is correct
 - You can only exceed 100% at an interim (IEEE 802.3 Working Group Interim is extra credit)
- IEEE 802.3 Attendance credit summary, July 2024 to September 2025
 - See https://www.ieee802.org/3/minutes/nov25/1125 attendance summary.pdf
- IEEE 802.3 Member ballot return records
 - See https://ieee802.org/3/ballots/ballot_returns.pdf
- IEEE 802.3 and IEEE 802.1 offer reciprocal credit at this plenary (max 4 credits)

Membership and attendance recording Meeting attendance tool procedures

Jon Lewis
IEEE 802.3 Working Group Secretary
Jon.lewis@dell.com

Membership and attendance recording Meeting attendance tool procedures

- The IEEE-SA Meeting Attendance Tool will be the basis of the official attendance record for this meeting: http://imat.ieee.org
- When you sign in for a meeting slot you are certifying that you are attending at least 75% of that meeting slot's duration
- Check that your affiliation (slide 24) and employer (slide 25) are correct per presentation below
- Full details of how to record attendance are available at the URL: https://www.ieee802.org/3/minutes/nov25/1125 imat.pdf

Membership and attendance recording Review of membership

- IEEE 802.3 voters
 - https://www.ieee802.org/3/minutes/nov25/1125_voters.pdf
- IEEE 802.3 voters in peril
 - https://www.ieee802.org/3/minutes/nov25/1125_peril.pdf
- IEEE 802.3 potential voters
 - https://www.ieee802.org/3/minutes/nov25/1125 potential.pdf

IEEE 802.3 Ethernet Working Group Treasury Report

Valerie Maguire, IEEE 802.3 Treasurer
Copperopolis
Bangkok, Thailand
November 10, 2025

IEEE 802.3 Ethernet Working Group Treasury Report

Account balance

Opening Jul 2025 balance: \$13,283.50

- Deposits: (0.00)

– Interest paid: \$158.94

– Debits: (0.00)

Closing Oct 2025 balance: \$13,442.44

Questions?

Thank you!

IEEE 802 LMSC report

Treasury

- Uncommitted reserves: \$1.55M (2024 net worth increase: \$331K)
 - Committed reserves: Advanced Payments: \$48K; Deposits: \$172K
 - Session estimate: Results: March 2025: \$165K; July: 174K; Forecast: November: \$125K
- Rules: In-Person Collaboration
 - 2 paths being considered
 - Require in-person attendance for gaining & maintaining voting rights
 - Remote attendance can contribute and give perspective while voting happens in-person only due to richer consensus building.
 - NOTE: The LMSC has set a goal to hold one plenary in each region (Americas, Europe, Asia) each year.
 - Either path wouldn't begin until July 2026
 - Discussion followed by Straw Polls will take place at closing plenary
 - See https://mentor.ieee.org/802-ec/dcn/25/ec-25-0258-00-LMSC-wg-polls-on-voting-changes.pptx for further information

IEEE 802 LMSC report Cross-IEEE 802 topics and IEEE 802 meetings

Opening IEEE 802 LMSC Meeting	08h00 - 10h30	Monday
IEEE 802 LMSC Rules	19h30 – 21h30	Monday
IEEE 802/JTC1 standing committee	16h00 - 18h00	Tuesday
IEEE YANG standing committee	17h00 – 18h00	Tuesday
IEEE 802/ITU standing committee	16h00 – 18h00	Wednesday
Next Venue resource review	07h30 - 08h00	Thursday
Future Venues Ad Hoc	08h00 - 08h30	Thursday
IEEE 802 LMSC Chair Open Office Hours	08h30 - 10h00	Thursday
Closing IEEE 802 LMSC Meeting	13h00 – 18h00	Friday

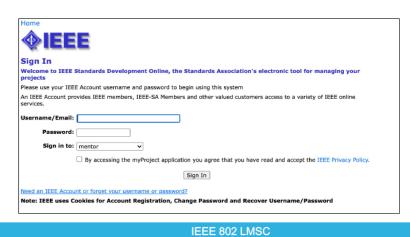
Note: all times and days above are in the physical meeting time zone (ICT)

See https://calendar.google.com/calendar/u/0/embed?src=b1i61797rqce8ks5fd9fi7k2nc@group.calendar.google.com&ctz=UTC

IEEE 802 LMSC report IEEE 802 Electronic Media November 2025

Accessing the eMedia

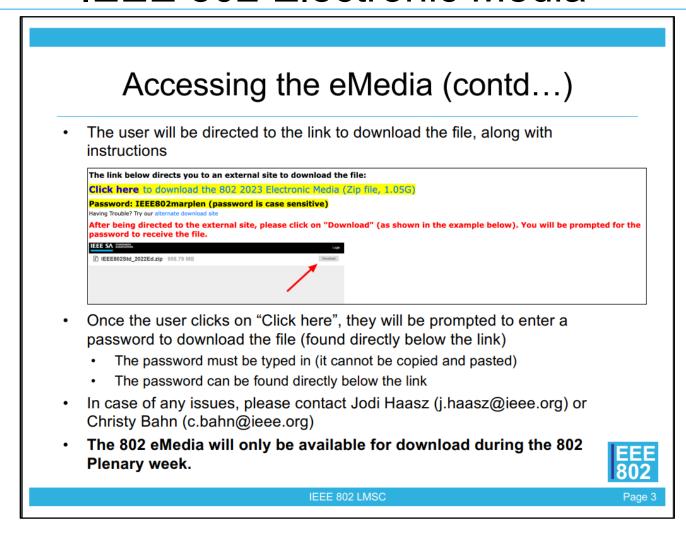
- During the IEEE 802 Plenary, the IEEE 802 plenary registered participant will receive an email to access the IEEE 802 eMedia and will be directed to the License Agreement
- The user must agree to the terms in order to proceed by clicking on "Agree and Proceed to Download"
- After clicking the link, the user will be directed to login to mentor (only users that registered for the 802 Plenaries will be able to login to access the file)





Please see https://mentor.ieee.org/802-ec/dcn/25/ec-25-0048-00-LMSC-ieee-802-electronic-media.pdf

IEEE 802 LMSC report IEEE 802 Electronic Media



Please see https://mentor.ieee.org/802-ec/dcn/25/ec-25-0048-00-LMSC-ieee-802-electronic-media.pdf

Other IEEE 802 LMSC PARs under consideration at this plenary session

Amendment PARs:

IEEE P802.1AEef Ascon Cipher Suite

IEEE P802.1AReg Support for the Module-Lattice-Based Digital Signature Algorithm

PAR modification request:

IEEE P802.1CBec Sequence Recovery Function Refinements and Configuration

IEEE P802.11bi Enhanced Service with Privacy Protection PAR and CSD (unchanged)

Liaisons

Liaison letters

External Liaison letters (new)

ITU-T SG15 Updates to ANT and HNT Standards Overviews and Work Plans liaison letter ITU-T SG15 Update to OTNT Standards Overview and Work Plan liaison letter and attachment Reply out of the May 2026 IEEE 802.3 interim meeting

Next ITU-T SG15 meeting from 29 June to 10 July 2026

ITU-T SG15 Development of weakly-coupled multi-core fibre Recommendations liaison letter IEEE 802.3 New Ethernet Applications Ad Hoc Ethernet for Al Assessment

ITU-T SG15 ETCC, 800G in G.698.2 and new B1T applications liaison letter and attachments IEEE P802.3dj 200 Gb/s, 400 Gb/s, 800 Gb/s, and 1.6 Tb/s Ethernet Task Force

ITU-T SG15 Ethernet Metadata Services (EMS) Study Group liaison letter Noted with thanks, no reply necessary

ITU-T SG15 Initiation of approval process for draft revised ITU-T G.8020.3 liaison letter ITU-T SG15 Consent of draft ITU-T G.8020.3 Ed 2.0 liaison letter and attachment Noted with thanks, no reply necessary

Assigned group or individual to review letter and make a recommendation at the IEEE 802.3 closing plenary if there should be a reply, and if so, propose a draft reply

Liaison letters (Con't)

External Liaison letters (new, continued)

ITU-T SG15 IM/DM modelling coordination liaison letter

Noted with thanks, no reply necessary

ITU-T SG15 Approval of Technical Report on International Optical Networks towards 2030 (ION-2030) and Beyond liaison letter and attachment

IEEE 802.3 New Ethernet Applications Ad Hoc Ethernet for Al Assessment

Technical report of use cases and requirements beyond 10Gbps liaison letter

IEEE 802.3 New Ethernet Applications Ad Hoc

OIF Next Generation CEI-448G Framework document project liaison letter and attachment IEEE 802.3 New Ethernet Applications Ad Hoc Ethernet for Al Assessment

Assigned group or individual to review letter and make a recommendation at the IEEE 802.3 closing plenary if there should be a reply, and if so, propose a draft reply

Liaison reports

ISO/IEC SC25/WG3 Customer Premises Cabling report ITU-T SG15 Networks, technologies and infrastructures for transport, access and home TIA TR-42 Telecommunications Cabling Systems

Please record your attendance in IMAT

https://imat.ieee.org/my-site/home

Continuing Agenda ...

DirectVote Live URL

https://vote.directvotelive.net/login.aspx?o=223